INTERNATIONAL SEARCH REPORT

int∈

Application No

PCT/GB 03/02441

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04J14/02 H04J14/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 388 782 B1 (CONNOLLY JOHN CHARLES ET AL) 14 May 2002 (2002-05-14) column 11, line 58 -column 12, line 21; figure 9	1,2
Υ .	column 13, line 43 -column 14, line 3; figure 11 column 14, line 25 - line 32; figure 12 column 15, line 8 - line 15 column 15, line 63 -column 16, line 16 column 19, line 47 - line 50 column 20, line 7 - line 45; figures 22,23	3,4
Y	US 6 028 697 A (LEE DO-HYUNG) 22 February 2000 (2000-02-22) column 2, line 24 - line 39	3,4

Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an Inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 12 February 2004 Name and mailing address of the ISA European Palent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Date of mailing of the international search report 20/02/2004 Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Alonso Martin, M.E.

INTERNATIONAL SEARCH REPORT

Intern al Application No PCT/GB 03/02441

	W. A DOLLAR WEST CONTRIBUTION OF THE PROPERTY	7C1/6B 03/02441		
C.(Continua Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Calegory	Chanon of document, with indication, where appropriate, or the relevant passages	neievani to dain iyo.		
A	US 5 815 294 A (NISHIMOTO HIROSHI ET AL) 29 September 1998 (1998-09-29) column 11, line 8 - line 17; figure 3 column 11, line 34 - line 47; figure 4 column 11, line 66 -column 12, line 30 column 14, line 60 -column 15, line 27; figure 9	1-4		
Ą	PATENT ABSTRACTS OF JAPAN vol. 007, no. 158 (E-186), 12 July 1983 (1983-07-12) & JP 58 066444 A (MITSUBISHI DENKI KK), 20 April 1983 (1983-04-20) abstract	1-4		
·				

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern pplication No PCT/GB 03/02441

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6388782	B1	14-05-2002	US	6014237 A	11-01-2000
			ΕP	1097539 A1	09-05-2001
			JP	2002521861 T	16-07-2002
			WO	0004669 A1	27-01-2000
		; *	AU	4952699 A	20-12-1999
			CA	2333713 A1	09-12-1999
		:	CN	1307768 T	08-08-2001
			ΕP	1078488 A1	28-02-2001
			JP	2002517945 T	18-06-2002
			WO	9963694 A1	09-12-1999
US 6028697	A	22-02-2000	KR	210913 B1	15-07-1999
		4 .	CN	1181647 A ,B	13-05-1998
		· .	DE	19733365 A1	12-02-1998
•			FR	2752067 A1	06-02-1998
			GB	2315939 A ,B	11-02-1998
			JP	3178661 B2	25-06-2001
			JP	10075002 A	17-03-1998
			RU	2146069 C1	27-02-2000
US 5815294	Α	29-09-1998	JP	8321805 A	03-12-1996
			ΕP	0700178 A2	06-03-1996
			US	5991477 A	23-11-1999
•			US	5870213 A	09-02-1999
			US	5717510 A	10-02-1998
			US	5909297 A	01-06-1999
		•	US	5754322 A	19-05-1998
			US	5896217 A	20-04-1999
			US 	5760937 A	02-06-1998
JP 58066444	A	20-04-1983	NONE		